Biomeditsinskaya Khimiya 2010 vol.56 N5, pages 552-561

Biochemical activity hyperbranched poliol Boltorn H20 and polycarboxyBoltorn H20 in relation to aspartic proteinase of Candida albicans

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Abstract

Hyperbranched polyol Boltorn H20 and polycarboxyBoltom H20 synthesized on its multifunctional nanoscaffold influence catalytic activity of aspartic proteinase Candida albicans (C alb.). The results of study catalytic activity proteinase C. alb. in relation to hemoglobin at presence Boltom H20 show, that the effect of activation is mainly observed. The inhibition effect much more poorly also has dot character. PolycarboxyBoltom H20 render activating effect in area of high concentration (1×10-3 - 5×10-4 M), however this effect is stronger (140%). A kinetic parameters enzyme proteolysis of hemoglobin (the maximal speed (Vm) and Mikhaelis constant (Km) are estimated, seeming types are certain and constants at presence Boltorn H20 and policarboxyBoltorn H20 are calculated.

Keywords

Enzyme catalysis, Hyperbranched poliol boltorn h20, Kinetic parameters, Proteinase candida albicans